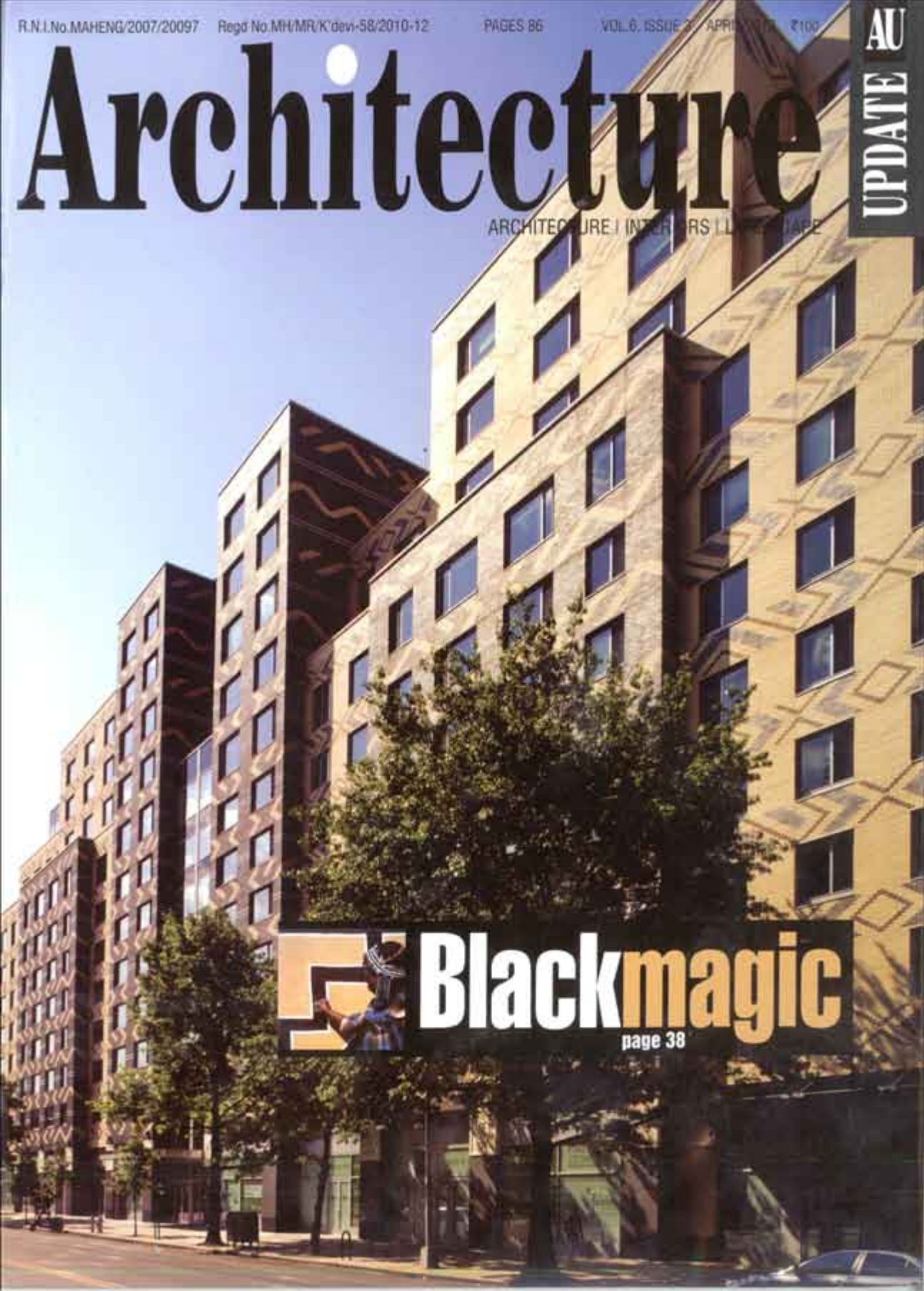


Architecture

ARCHITECTURE | INTERIORS | LIFESTYLE



Blackmagic

page 38



LETS TALK

THINK 'GREEN'
Frederic Schwartz,
FAIA, FAAR
Frederic Schwartz
Associates, New
York, USA



BATH FURNITURE KONCEPT

Contemporary bathroom furniture
by Zolijns



NEW PRODUCTS

Nitco; H&R Johnsons; Fevicol
& Ego Wall Décor

26	28	30	32	34	38	44
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PUBLIC AWARENESS

World Water Day
We Are Water Foundation
by Roca



BLACKMAGIC

KALAHARI, Harlem, New
York, USA



DIALOGUE

Ashok Verma, Business Head, Encraft (Ajay
Industrial Corporation Ltd.)



**COLUMN FREE
TERMINAL**

Chennai Airport,
Chennai, INDIA
Frederic Schwartz
Architects



THE TRANSITION OF CULTURES

Heritage Museum Patna, India COOP HIMMELB(L)AU



CORAL REEF

Matrix and plug-in for 1000 Passive Houses
Port-au-Prince, Haiti Vincent Callebaut
Architect, Belgium



MERGING WITH NATURE

The New Headquarters and Production
Complex for Pratic Fagagna, Udine,
Northern Italy, GEZA architects



NEW STADIUM

Forsyth Barr Stadium,
Dunedin, New Zealand
Populous architects



SIMPLICITY OF FORM & MATERIALS

Safal Profitaire, Prahladnagar,
Ahmedabad, India
HCP Design, Planning and Management
Pvt. Ltd.



THE NEWLOOK

The New Office Building B5, Milan, Italy
Barreca & La Varra Studio



VERTICAL FARM

Hydrogenase - Shanghai, South China Sea
Vincent Callebaut Architect

Simplicity



of Form & Materials

The 'Safal Profitaire, Prahladnagar, Ahmedabad, India' by HCP Design, Planning and Management Pvt. Ltd. characterises the simplicity of structural form and materials by using uniquely designed devices to humanize architecture. These devices also add to the user's comfort and architectural authenticity.





text & photographs: courtesy, the architect

Safal Profitaire, Prahladnagar, Ahmedabad, India

HCP Design, Planning and Management Pvt. Ltd.

about Dr Bimal Patel



Dr. Bimal Patel is an architect and urban planner with more than 20 years of professional experience in both fields. He is a Director at HCP Design, Planning and Management Pvt. Ltd., a highly regarded architecture, planning and project management firm in India. He is also the Founder-Director of Environmental Planning Collaborative, a not-for-profit, planning research and advocacy organization that works with local governments and other agencies. He is actively engaged

in understanding and transforming urban design and urban planning practice in India to make them more effective in improving the quality of life in Indian Cities. His architectural and urban planning work has been internationally recognized and published, and Dr. Bimal Patel and the two companies that he heads, HCPDPM and EPC, have been the recipients of several awards. Dr. Patel is also a Visiting Faculty at School of Architecture and School of Planning, CEPT, Ahmedabad and a guest lecturer at some of the top institutions in India and abroad.

The multi-tenanted office complex 'Safal Profitaire, Prahladnagar Ahmedabad, India' by HCP Design, Planning and Management Pvt. Ltd. breaks away from the conventional Indian property developments enclosed within compound walls, by placing the buildings right up to the widened sidewalks providing an interior courtyard for semi-public use. The 28,000-sq.m built-up area on a 2.85 acre plot located in a largely residential urban fabric of two to three storied buildings is bound by streets on three sides. The massing and the orientation of the buildings respond to the existing urban context by placing the two low rise buildings facing onto the streets while pushing the high rise building to the rear of the site. On-street parking is kept to a minimum by maximizing the underground parking space that stretches beneath the entire property.

In order to achieve more than 50 per cent glazed façade and maintain energy efficiency in terms of climate control and lighting, the architects



the interior courtyard for semi-public use.



extensive design explorations by architects and product design team

devised a system of rigid vertical louvers with cement bonded fiber board panels. The façade system consists of aluminium framed sliding windows screened on the outside by vertical louvers. The gap between the two skins helps to maintain air flow in order to cool down the external façade.

The Vertical Rigid Louver System (VRLS) is mounted on a 600-mm wide ledge that runs on each floor along the entire perimeter of the building. Each 'louver' within the system extends from slab to slab (approximately 3-m) and is 400-mm wide. The louvers are linked together to form arrays that align with the glazing pattern of the façade and can be operated manually with one control. A simple handle and stopper arrangement allows the user to change



the louver system limits glare, ensuring visibility from the interiors.



two low rise buildings facing onto the streets & the high rise building to the rear.



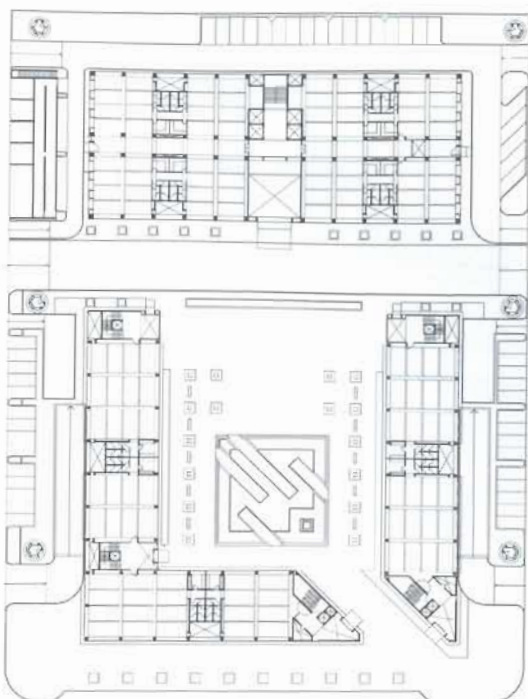
the façade system of aluminium framed sliding windows screened on the outside by vertical louvers.

the position of the *louvers* in response to the angle of the sun at different times of the day and in different seasons. The *panel* material of the *louvers* is relatively light-weight and has good insulating properties. The structural and mechanical components of the system are aluminium and stainless steel.

These applications of the *flexible façade system* are the result of extensive design explorations by the architects and the product design team. Various design alternatives were constructed and their performances were tested on site to refine the design for maximum effectiveness. This product design methodology allows the designers and the users to explore and assess the functional and aesthetic aspects of the product's final form.



the detailing of the windows.



site plan.

The *louver system* primarily protects the building interior from solar heat gain, shades the *external façade* to keep it cool, limits glare, ensures visibility from the interiors and preserves transparency from the outside. The easily operable technology allows users to adjust the optimum shading angle depending on the time of the day and the season of the year. Designed such that every room has a *single unit of louvers* which can be individually adjusted, it provides flexibility to each user to customize his own interiors for lighting and temperature. The different internal uses and its respective requirements have an expression on the *external façade*, resulting in a dynamic building aesthetics. Hence, the HCPDPM buildings characterized by the simplicity of structural form and materials, use uniquely designed devices to humanize architecture. At the same time, these devices add to the user comfort and architectural authenticity. ▲

fact file:

project	: Satel Profitaire
location	: Ahmedabad, India
architect	: Ar Bimal Patel, Anand Patel, Mahesh Iyer, Rakesh Rajput, Mahendra Patel, Amit Shah
client	: Satel Engineers
built-up area	: 28,000-sq.m
design team	: HCP Design, Planning and Management Pvt. Ltd.
interior design	: HCP Interior Architecture Pvt. Ltd.
façade system	: FACE façade applications for Conservation of Energy (A division of TDW Furniture Pvt. Ltd.)
landscape	: Design Cell
structure	: Ducon Consultants Pvt. Ltd.
dt of commencement	: 2006
dt of completion	: 2010
photography	: Dinesh Mehta
e-mail	: hcpahd@hcp.co.in
web	: http://hcp.co.in/